

## engineering data service

5932

### MECHANICAL DATA

Base 1								Me	diun	a (	Octai	L	)W	Loss Phenolic	7-Pin
Basing															. 7S
Cathode														Coated Unipo	tential
Mountin	g	Pos	sitio	n	•	•			•	•	•				. Any

#### **RATINGS**

Shock (Intermittent Service-Abs. Max.)			450	g
Vibration (Continuous Service-Design Center)			2.5	g
Mechanical Resonance	None	Below	100	cps

### **ELECTRICAL DATA**

### HEATER CHARACTERISTICS

Heater Voltage	(Avg.)								6.3	Volts
Heater Voltage	(Abs. M	ax.	)						7.0	Volts
Heater Voltage	(Design	Cen	iter	)					6.3	Volts
Heater Current	(Avg.)								900	Ma
Heater Current										
Heater Current	$(Min.)^2$	•	•		•			•	840	Ma

RATINGS							Max.		
Plate Voltage .							400	360	Volts
Screen Voltage .							300	270	Volts
Plate Dissipation							21	19.0	Watts
Screen Dissipation							2.75	2.5	Watts
Heater-Cathode Vo	olta	ge					$\pm 200$	$\pm 180$	Volts

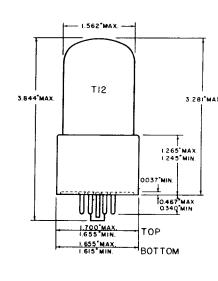
### CHARACTERISTICS AND TYPICAL OPERATION

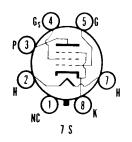
Class A<sub>1</sub> Amplifier (Single Tube)

	Min.2	Avg.	Max. <sup>2</sup>
Plate Voltage		250	Volts
Screen Voltage		250	Volts
Grid Voltage <sup>3</sup>		-14	Volts
Peak AF Signal Voltage		14	Volts
Plate Current (Zero Signal)	58	72	86 <b>M</b> a
Plate Current (Maximum Signal)		79	Ma
Screen Current (Zero Signal)	0	5	8 Ma
Screen Current (Maximum Signal)		7.3	Ma
Transconductance	5200	6000	6800 μmhos
Plate Resistance	:	22500	Ohms
Load Resistance		2500	Ohms
Power Output	5.4	6.5	Watts
Total Harmonic Distortion		10	Percent
Grid Current			3.0 µa
Heater-Cathode Leakage at ±200 Volts .			75 μα

### QUICK REFERENCE DATA

Rugged beam power amplifier designed for use in control or recording devices, or as an amplifier in equipment subjected to mechanical shock or vibration.





### SYLVANIA ELECTRIC PRODUCTS INC.

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SEPTEMBER 1952

# 5932 6LGWGA

### CHARACTERISTICS AND TYPICAL OPERATION

Class A <sub>1</sub> Amplifier (Single Tube)	
Plate Voltage	350 Volts
Screen Voltage	250 Volts
Grid Voltage <sup>3</sup>	-18 Volts
Peak AF Signal Voltage	18 Volts
Plate Current (Zero Signal)	54 <b>M</b> a
Plate Current (Maximum Signal)	66 <b>M</b> a
Screen Current (Zero Signal)	2.5 <b>M</b> a
Screen Current (Maximum Signal)	7.0 <b>M</b> a
Transconductance	5200 $\mu$ mhos
Plate Resistance	33000 Ohms
Load Resistance	4200 Ohms
Power Output	10.8 Watts
Total Harmonic Distortion	15 Percent

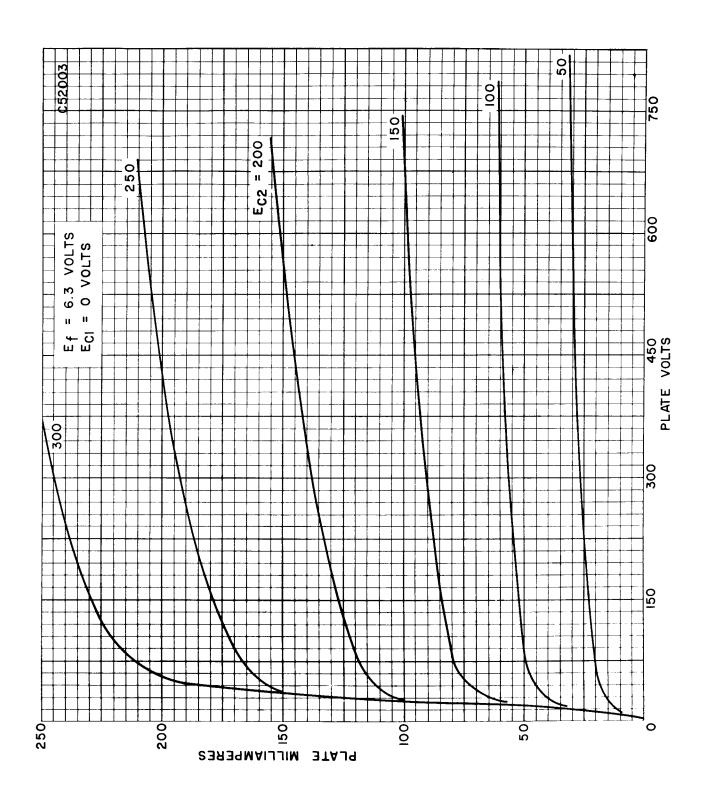
### Push-Pull Amplifier

(	Class A <sub>1</sub>	Cla	ss AB <sub>1</sub>	Class AB	2
Plate Voltage 250	270	360	360	360 36	Volts
Screen Voltage 250	250	270	270	225 27	) Volts
Grid Voltage <sup>3</sup> 16	-17.5	-22.5	-22.5	-18 -22.	5 Volts
Peak AF Grid to Grid Voltage 32	35	45	45	52 7	2 Volts
Plate Current (Zero Signal) . 120	134	88	88	78 8	B Ma
Plate Current (Max. Signal) . 140	155	132	140	142 20	5 <b>M</b> a
Screen Current (Zero Signal) . 10	11	5	5	3.5	5 <b>M</b> a
Screen Current (Max. Signal) . 16	17	15	11	11 1	5 <b>M</b> a
Transconductance 5500		_			– μmhos
Plate Resistance 24500		_	_		- Ohms
Load Resistance 5000		6600	3800		Ohms
Power Output 14.5	17.5	26.5	18	31 4	7 Watts
Total Harmonic Distortion 2	2	2	2	2	2 Percent

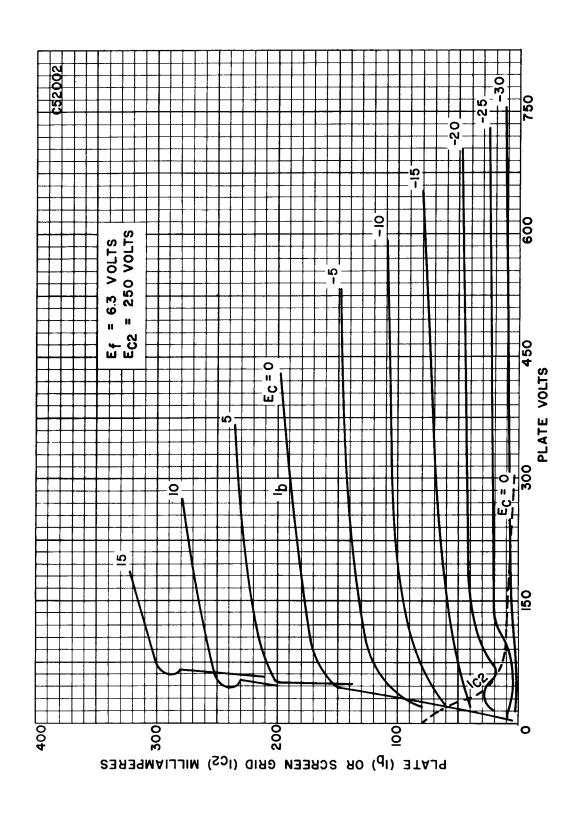
### NOTES:

- 1. Maximum base dielectric loss factor is 0.1. Reference: ASTM Designation D-150-47T.
- 2. Limits given here are the extremes which may be found in production.
- 3. For fixed bias operation the grid bias resistor should not exceed 0.1 megohm. A grid circuit resistance of .25 megohm may be used for self bias providing the heater voltage will not exceed 7.0 volts under any probable operating condition.

### AVERAGE PLATE CHARACTERISTICS



### AVERAGE PLATE CHARACTERISTICS



## AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTED

